<u>Claims</u>

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- 1. A double-sided indexable cutting insert for chip removing machining, wherein said cutting insert (10;10') has a negative, polygonal basic shape and comprises cutting corners (17;17'), wherein each cutting corner comprises a nose edge (18;18') and a minor cutting edge (19;19'), wherein the nose edge connects to a major cutting edge (15A,15B;15A',15B') and to the minor cutting edge, wherein a bisector (B) of the corner intersects the nose edge, wherein upper cutting edges (15A,15B;15A',15B') are formed in transitions between a top side (11;11') and an edge surface (13;13') of the cutting insert, wherein lower cutting edges are formed in transitions between a bottom side (12;12') and the edge surface (13;13'), said sides (11,12) constituting a rake face in one position and a support surface in another position, and said edge surface (13;13') constituting an edge surface, wherein each cutting corner (17;17') is asymmetrical in relation to the bisector (B) of the corner, wherein the nose edge (18;18') is defined by a radius (R1) that is smaller than a radius (R2) of the minor cutting edge, each side (11,12;11',12') comprising a plurality of nose edges (18;18'), which at least partly touch a plane (P;P'), characterized in that an imaginary line (L;L'), which is perpendicular to the plane (P;P') and which touches the minor cutting edge (19;19'), intersects the edge surface (13;13') and that the minor cutting edge (19;19') is curved.
- 2. The cutting insert according to claim 1, c h a r a c t e r i z e d in that the imaginary line (L) intersects the edge surface (13) at a distance (L1) from the minor cutting edge that equals about half of the thickness of the cutting insert (L2).
- 3. The cutting insert according to claim 1 or 2, c h a r a c t e r i z e d in that the line (L) coincides with the edge surface (13) for about half of the thickness (L2) of the cutting insert.

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- 4. The cutting insert according to any one of the preceding claims, c h a r a c t e r i z e d in that the edge surface (13) has a step (20A,20B) on both sides of the bisector (B) of the cutting corner, which step is substantially parallel with the plane (P).
- 5. The cutting insert according to claim 4, c h a r a c t e r i z e d in that the step (20A,20B) forms a sharp corner (21) with the edge surface (13) below the step (20A,20B) in order to constitute an indication of fracture.
- 10 6. The cutting insert according to any one of the preceding claims, c h a r a c t e r i z e d in that the cutting insert has a substantially constant clearance angle around the cutting insert.
- 7. The cutting insert according to any one of the preceding claims,
 c h a r a c t e r i z e d in that it consists of cubic boron nitride (CBN) or a combination of CBN and cemented carbide where the cutting corners consist of CBN plates.
- 8. The cutting insert according to any one of the preceding claims,

 c h a r a c t e r i z e d in that the bisector (B) intersects the nose edge (18;18'),

 both at the top and the bottom side (11,12;11',12').
 - 9. Method for manufacturing a cutting insert for chip removing machining from a polygonal plate of a hard wear-resistant material having a thickness (L2) and equally large side surfaces, wherein the plate comprises a plurality of corner portions, the method comprising the following steps:
 - fasten the plate in a fixture,
 - machining at least one corner portion, preferably by means of grinding, so that a first area, corresponding to approximately half of the thickness (L2), obtains a rounded nose edge (18), a minor cutting edge (19) and an edge surface (13),
 - turn the polygonal plate upside down and fasten it to the fixture again,

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- machining the corner portion, preferably by means of grinding, so that a second area, corresponding to approximately half of the thickness (L2), obtains a rounded nose edge (18), a minor cutting edge (19) and an edge surface (13), said machining of said first and second areas providing a double-sided indexable cutting insert wherein an imaginary line (L), which is perpendicular to a plane (P) containing the nose edge (18), and which touches the minor cutting edge (19), intersects the edge surface (13).
- 10. Method according to claim 9, comprising the following additional step,
 machine the nose edge (18) so that it obtains a radius (R1) that is smaller than a radius (R2) of the minor cutting edge.